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Brocade 5300

Fan Assembly Replacement Procedure

Supporting Brocade 5300

BROCADE

53-1000861-01

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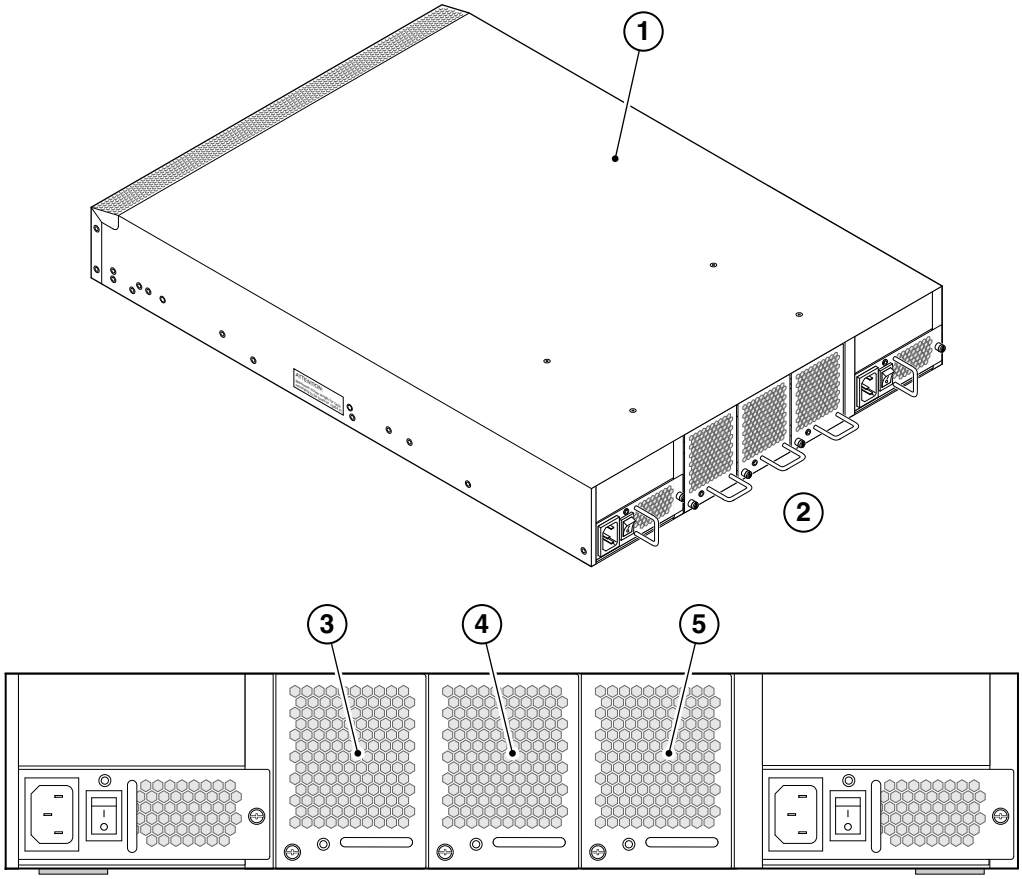
Document History

Title	Publication number	Summary of changes	Date
Brocade 5300 Fan Assembly Replacement Procedure	53-1000861-01	New document	12 March 2008

Fan assembly replacement

The Brocade 5300 switch has three fan assemblies as displayed in Figure 1. Fabric OS identifies the fans from left to right as Fan assembly #3, Fan assembly #2, and Fan assembly #1.

FIGURE 1 **Brocade 5300 fan assemblies on the nonport side**



1 Brocade 5300
2 Nonport side
3 Fan Assembly #3
4 Fan Assembly #2
5 Fan Assembly #1

CAUTION

Disassembling any part of the fan assembly voids the part warranty and regulatory certifications. There are no user-serviceable parts inside the fan assembly. Because the cooling system relies on pressurized air, do not leave any of the fan assembly slots empty longer than two minutes while the switch is operating. If a fan assembly fails, leave it in the switch until it can be replaced. Maintain all three fan assemblies in operational condition to provide redundancy.

Table 1 describes the fan status LED colors, behaviors, and actions required, if any.

TABLE 1 Fan status LED behavior, description, and required actions

LED color and behavior	Description	Action required
No light	Fan assembly is not receiving power.	Verify that the fan FRU is seated correctly.
Steady green	Fan assembly is operating normally.	No action required.
Steady amber (for more than five seconds)	Fan fault for one of the following reasons: One or more of the fan(s) in the fan assembly has failed The fan FRU was disabled by the user	Verify that the fan FRU is enabled. If the fan FRU is enabled and the FRU is faulty it should be replaced.

Time required

Replacing a fan assembly in the Brocade 5300 switch should take less than two minutes.

Items required

You need the following items to replace a fan assembly in a Brocade 5300:

- Brocade 5300 switch
- New fan FRU assembly
- Phillips-head screwdriver #1

Replacing the fan assembly

To replace a fan assembly in a Brocade 5300:

1. Unscrew the captive screw on the fan assembly you are replacing using a Phillips-head screwdriver.
2. Remove the fan assembly you are replacing from the chassis by pulling the handle out, away from the chassis.
3. Install the new fan assembly in the chassis:
   a. Orient the new fan assembly as shown in Figure 2, with the captive screw on the right.
   b. Gently push the fan assembly into the chassis until it is firmly in.

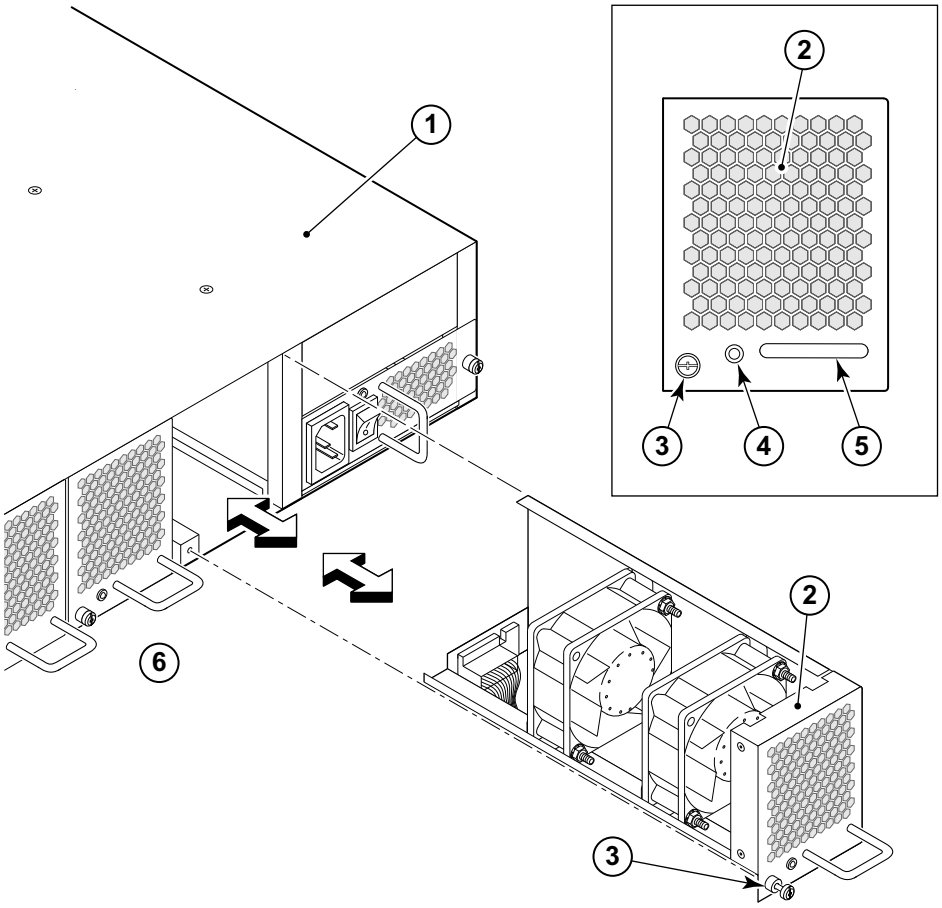
CAUTION

Do not force the installation. If the fan assembly does not slide in easily, ensure that it is correctly oriented before continuing.

   c. Secure the fan assembly to the chassis by screwing in the captive screw using the Phillips-head screwdriver.
4. Verify that the fan status LED is lit steady green to indicate normal operation (see Table 1).

5. Optionally, display the fan status using the **fanShow** command from the CLI (see Figure 1 for the locations of Fan assembly #1, Fan assembly #2, and Fan assembly #3).

FIGURE 2 Inserting the Fan Assembly in the Brocade 5300



1	Brocade 5300	4	Status LED
2	Fan assembly unit	5	Handle
3	Captive screw	6	Non-port side